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TITLE: Protein expression system arrays and use in biological screening

BSTX:

[0003] A variety of protein expression systems have been used over the years as a tool in biochemical research. These expression systems include, but are not limited to, genetically engineered cell lines that over-express a protein of interest (e.g. receptor, antibody or enzyme) modified bacteria, and phage display libraries of multiple proteins. Thus, proteins prepared through these approaches can be isolated and either screened in solution or attached to a solid support for screening against a target of interest such as other proteins, receptor ligands, small molecules, and the like. Recently, a number of researchers have focused their efforts on the formation of arrays of proteins similar in concept to the nucleotide biochips currently being marketed. For example, WO 00/04389 and WO 00/04382 describe microarrays of proteins and protein-capture agents formed on a substrate having an organic thinfilm and a plurality of patches of proteins, or protein-capture agents. Also, WO 99/40434 describes a method of identifying antigen/antibody interactions using antibody arrays and identifying the antibody to which an antigen binds.

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	70	antibod\$ adj array\$	USPAT; US-PGPUB; EPO; DERVENT	2002/02/04 15:49	
2	BRS	L2	22623	solid adj support	USPAT; US-PGPUB; EPO; DERVENT	2002/02/04 15:49	
3	BRS	L3	983095	substrate	USPAT; US-PGPUB; EPO; DERVENT	2002/02/04 15:49	
4	BRS	L4	6	polyneucleotide\$	USPAT; US-PGPUB; EPO; DERVENT	2002/02/04 15:49	
5	BRS	L5	26479	polynucleotide\$	USPAT; US-PGPUB; EPO; DERVENT	2002/02/04 15:50	
6	BRS	L6	51	1 and 2	USPAT; US-PGPUB; EPO; DERVENT	2002/02/04 15:50	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
7	BRS	L7	51	1 and 2	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 15:50	
8	BRS	L8	60	1 and 3	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 15:50	
9	BRS	L9	0	4 and 7	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 15:51	
10	BRS	L10	0	4 and 8	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 15:51	
11	BRS	L11	2	1 same 2	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 15:54	
12	BRS	L12	1756	microarray\$	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 15:55	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
13	BRS	L13	110905	antibod\$	USPAT; US-PGPUB; EPO; DERWENT	2002/02/04 15:55	
14	BRS	L14	1392	12 and 13	USPAT; US-PGPUB; EPO; DERWENT	2002/02/04 15:56	
15	BRS	L15	442	2 and 14	USPAT; US-PGPUB; EPO; DERWENT	2002/02/04 15:56	
16	BRS	L16	398	5 and 15	USPAT; US-PGPUB; EPO; DERWENT	2002/02/04 15:56	
17	BRS	L18	32	5 and 8	USPAT; US-PGPUB; EPO; DERWENT	2002/02/04 15:56	
18	BRS	L17	34	5 and 7	USPAT; US-PGPUB; EPO; DERWENT	2002/02/04 16:06	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
19	BRS	L19	315	2 same 12	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 16:06	
20	BRS	L20	270	19 same 5	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 16:07	
21	BRS	L21	18107	monoclonal and polyclonal	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 16:07	
22	BRS	L22	258	20 and 21	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 16:07	
23	BRS	L23	8237	21 and murine	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 16:08	
24	BRS	L24	248	22 and murine	USPAT; US-P GPUB; EPO; DERW ENT	2002/02/0 4 16:08	